

## TRANSFORMER EXCITING RUSH CURRENT SUPPRESSOR

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### Abstract of JP1099432

**PURPOSE:** To prevent exciting rush current from being generated, by heightening voltage on the secondary side of a voltage regulator, from zero in a state that the primary side of a transformer is connected to the secondary side of the voltage regulator, and by connecting the primary side of the transformer directly to a system when the voltage is turned into the same one as system voltage.

**CONSTITUTION:** First, a switch 33 is made, and a transformer 2 is connected to a system via a voltage regulating transformer 1. In this state, a loading time tap switch 14 is the lowest tap 101, and so voltage is not applied to the transformer 2. From this state, the loading time tap switch is switched in order. When the highest tap 111 is selected by the loading time tap switch 14, then a transformer primary-terminal 41 coincides with system voltage, and so a switch 31 is closed, and the transformer 2 is directly connected to the system. After that, a switch 32 is opened, and the voltage regulating transformer 1 and the transformer 2 are disconnected from each other. As a result, the transformer 2 can be made into the system without generating exciting rush current at all.

